ZHAGA CONTROLLER | FOR LED SPORT LIGHT

PRODUCT DESCRIPTION

The zhaga controller is a DALI-based, intelligent wireless lighting controller that opens an exciting integration path for LED Luminaires. The small size and low cost make this DC-powered wireless controller versatile enough to be connected to nearly any wattage LED Luminaire. Pairing the controller with a SimplySNAP Site Controller makes it easy to comply with DALI-2, ASHRAE, Title 24, DLC NLC Indoor/Outdoor, and other energy requirements today and in the future.

TECHNICAL DATA	Input Voltage (CV)1	12-24 VDC
	Max Current Draw	42 mA @ 24V
	CRI	83RA/97RA/93RA
	Operating Temperature	-40°C to +70°C; 0 to 95% RH non condensing
	Product Size	3.15” D x 1.5” H (80 mm D x 38 mm H)
	Enclosure Rating	IP66 Rated; IK09
	Dali-2	Limited to 4 LED drivers
	Sensor input	Analog: 0-10V; Digital: 0-24V; Software selectable
	Radio	SNAP 2.4GHz; 802.15.4 +20dBm Transmit power-103dBm Receive Sensitivity
	Certifications	UL8750, FCC/IC, CE, DLC, RoHS, DALI-2, D4i
	Warranty	5-year

Key Features

- Seamless SimplySnap Integration
- Small footprint allows for easier integration
- Simplified DC Design — mates with LED Drivers
- Zhaga Book 18 receptacle support
- Secure AES128 Encryption
- Self-healing 2.4GHz SNAP Mesh Networking
- Secure, over-the-air software upgrades
- 1 Sensor Input: DC Motion or 0-10V Photocells
- IEC 62386 DALI-2 Certified – D4i
- DALI-2 Certified DATA Bus – Part 101
- DALI-2 /D4i Power Monitoring – Part 252
- D4i – Type D – Single-Master Controller – Part 351
- DALI-2 Linear Dimming, ON/OFF – Part 218
- DLC Certification for both Indoor and Outdoor
- Powered via LED Driver Aux Power

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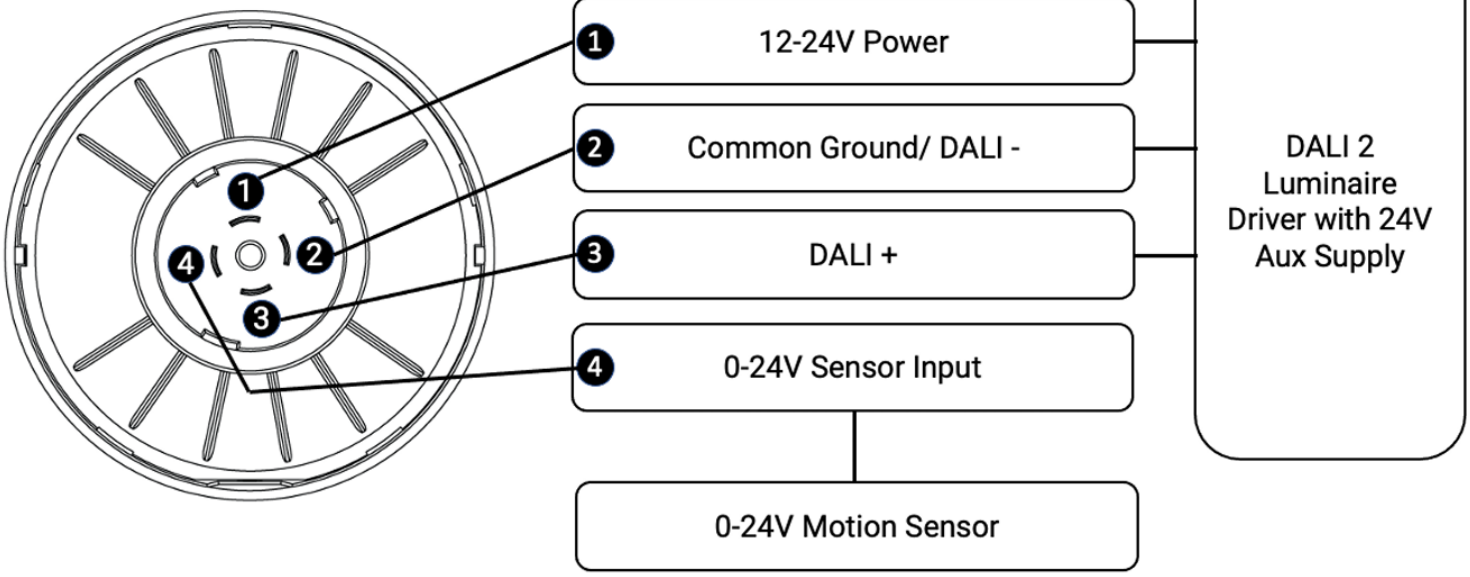
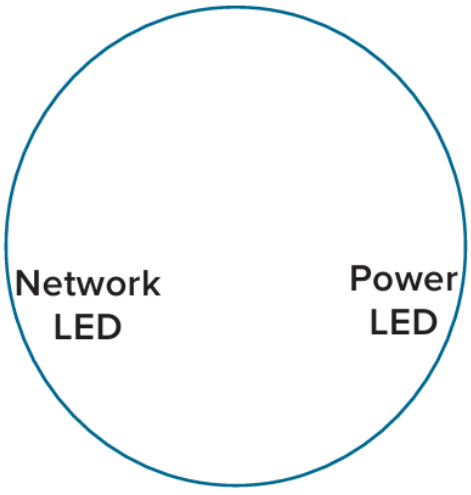
PRODUCT WIRING GUIDE

Bottom View of the ZHA-S1 Controller



CONTROLLER INDICATOR



Top View of ZHA-S1

LED	Color	Status
Network	Blue	Network Found, No Configuration
Network	Green	Normal Operation
Network	Red	Communication Error
Power	Blue	Unit Powered
Power	Off	Unit not Powered

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PRODUCT WARNINGS

- Please turn off power before install or change assembly parts.
- The input voltage and lamps should be matched, after connecting the power line.
- Please make sure the wiring section is insulated.
- Professionals must install and disassemble the lamps.
- Surge is the number 1 cause of LED light failure. Outdoor lights must have surge at fixture, pole, and breaker.
- Surge is the number 1 cause of LED light failure. Indoor lights must have surge at fixture and breaker.

PRODUCT TROUBLESHOOTING

Issue	Check points
Light Flickers	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. Lights with photocells can have photocell tag from ambient light or light reflecting at the sensor. Simply cover the photocell completely and see if flickering continues while the photocell is covered. Call Tech Support for help if none of the above solves the issue.
Light does not work at all.	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. If input voltage is not in the voltage range of the fixture, you will need to find the source of your input voltage issue. Call Tech Support for help if none of the above solves the issue.

For more technical information, install questions, troubleshooting help or warranty claims, we have a dedicated US Tech and Customer Support Team to help solve any issues you have and can be reached by email or phone. If you need help with any of our products, we are here for you so that you are never in the dark!